Melampodium elottianum (Asteraceae: Heliantheae) A new species from along the Rio Cuixmala, Jalisco

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ABSTRACT

A novel taxon, **Melampodium elottianum** B.L. Turner, **sp. nov.**, is described from along the Rio Cuixmala of western Jalisco. It presumably belongs to the Sect. Serratura. A photograph of the Type is provided, along with a key to the Mexican species of the Sect. Serratura, including distribution maps. Published on-line www.phytologia.org *Phytologia 98(1): 26-29 (Jan 5, 2016)*. ISSN 030319430.

KEY WORDS: Asteraceae, Heliantheae, Melampodium, Mexico, Jalisco

Routine identification of Mexican Asteraceae has revealed the following novelty, a low elevation riparian species from along the Rio Cuixmala of the Chamela Bay Region, Jalisco.

MELAMPODIUM ELOTTIANUM B.L Turner, sp. nov. Fig. 1

Annual herbs to 30 cm high. Mid-stems glabrous or nearly so. Leaves opposite, 3-4 cm long, 1.0-1.5 cm wide; petioles I-4 mm long, passing into the blades; blades lanceolate, pinnately veined, sparsely pubescent above and below, the margins entire. Heads single, terminal or axillary, 5-6 mm wide, 4-5 mm high, the ultimate peduncles sparsely pubescent, 2-4 cm long. Involucres of 5 broadly ovate bracts, 2-3 mm long, 1-2 mm wide, pubescent below with stiff hairs, their margins not membranous. Receptacles ca 2 mm wide, 3 mm high; pales linear-oblanceolate their apices rounded, pubescent. Ray florets 11, fertile; ligules "yellow," ca 3 mm long, 2 mm wide, under surfaces with 3-6 prominent green ribs. Achenes somewhat arcuate, epappose, glabrous, ca 2 mm long, having 3 prominent lateral ribs and a prominent dorsal rib. Disk florets ca 30, sterile, the corollas yellow, glabrous.

TYPE: **MEXICO. JALISCO: Mpio. La Huerta,** "Rancho Cuixmala, W of the Puerto Vallarta--Barra de Navidad (Mex 200) hwy., along the Rio Cuixmala." 19 23 N, 104 58 45 W, "Riparian zone. Uncommon straggling perennial," 12 Jan 1991, *Emily J. Lott 3188* [with B.L. Phillips] (Holotype: TEX).

As noted above, the collectors described the plant as a straggling perennial, but it appears to be a tap-rooted annual, to judge from its root system. Lott (1993), in her checklist of the region concerned, listed the type as **M. microcephalum**, this presumably my misidentification at the time.

In McVaugh's treatment of Melampodium for Flora Novo-Galiciana, the novelty will key,

reluctantly, to, or near, **M. glabrum**, a poorly known species of aquatic habitats that Stuessy (1972, 1979) positioned in the Sect. Alcina, (along with **M. nutans** and **M. perfoliatum**). Stuessy et al. (2011), using DNA data, treated **M. nutans** and **M. glabrum** as belonging to 2 newly established, monotypic sections. Their studies also suggested that Sect. Serratura was a natural grouping.

Melampodium elottianum appears to belong to the Sect. Serratura of Melampodium (Stuessy 1972; Stuessy et al. 2011); in Mexico, the complex contains six species, including the widespread, very common, M. divaricatum (Map 1) and the relatively rare taxa, M. dicoelocarpum, M. tepecense and the very rare M. sinaloense from NW Mexico, M. northingtonii from Oaxaca (Turner 1988) and the

presently described **M. elottianum** (Map 2), the latter presumably a riparian species of low elevations in western Jalisco, as noted on the type itself.

The novelty is named for Emily Lott, long time student of The Mexican flora and author of the checklist of the Chamela Bay Region of Jalisco (Lott 1993).

Artificial key to the Mexican taxa of Sect. Serratura

2. Ultimate peduncles mostly 15-75 mm long...(4)

- 2. Ultimate peduncles mostly 0-15 mm long...(3)
- Ligules of ray florets 0.8-1.0 mm long; Nay, Jal, Col, Mic...... M. tepicense
 Ligules of ray florets 1.5-2.0 mm long; n Sin...... M. sinaloense

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Figure 1. Melampodium elottianum

